

**TRAF3 Antibody (N-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS11735****Specification**

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**TRAF3 Antibody (N-Terminus) - Product Information**

Application	IHC
Primary Accession	<a href="#">O13114</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64kDa KDa

**TRAF3 Antibody (N-Terminus) - Additional Information****Gene ID** 7187**Other Names**

TNF receptor-associated factor 3, 6.3.2.-, CAP-1, CD40 receptor-associated factor 1, CRAF1, CD40-binding protein, CD40BP, LMP1-associated protein 1, LAP1, TRAF3, CAP1, CRAF1

**Target/Specificity**

15 amino acid peptide from near the amino terminus of human

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

**Precautions**

TRAF3 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**TRAF3 Antibody (N-Terminus) - Protein Information****Name** TRAF3 ([HGNC:12033](#))**Function**

Cytoplasmic E3 ubiquitin ligase that regulates various signaling pathways, such as the NF-kappa-B, mitogen-activated protein kinase (MAPK) and interferon regulatory factor (IRF) pathways, and thus controls a lot of biological processes in both immune and non-immune cell types (PubMed:<a href="http://www.uniprot.org/citations/33148796" target="\_blank">33148796</a>, PubMed:<a href="http://www.uniprot.org/citations/33608556" target="\_blank">33608556</a>). In TLR and RLR signaling pathways, acts as an E3 ubiquitin ligase promoting the synthesis of 'Lys-63'-linked polyubiquitin chains on several substrates such as ASC that lead to the activation of the type I interferon response or the inflammasome (PubMed:<a href="http://www.uniprot.org/citations/25847972" target="\_blank">25847972</a>, PubMed:<a href="http://www.uniprot.org/citations/27980081" target="\_blank">27980081</a>). Following the activation of certain TLRs such as TLR4, acts as a negative NF-kappa-B regulator, possibly to avoid unregulated inflammatory response, and its degradation via 'Lys-48'-linked polyubiquitination is

required for MAPK activation and production of inflammatory cytokines. Alternatively, when TLR4 orchestrates bacterial expulsion, TRAF3 undergoes 'Lys-33'- linked polyubiquitination and subsequently binds to RALGDS, mobilizing the exocyst complex to rapidly expel intracellular bacteria back for clearance (PubMed:<a href="http://www.uniprot.org/citations/27438768" target="\_blank">27438768</a>). Acts also as a constitutive negative regulator of the alternative NF-kappa-B pathway, which controls B-cell survival and lymphoid organ development. Required for normal antibody isotype switching from IgM to IgG. Plays a role T-cell dependent immune responses. Down-regulates proteolytic processing of NFkB2, and thereby inhibits non-canonical activation of NF-kappa-B. Promotes ubiquitination and proteasomal degradation of MAP3K14.

#### Cellular Location

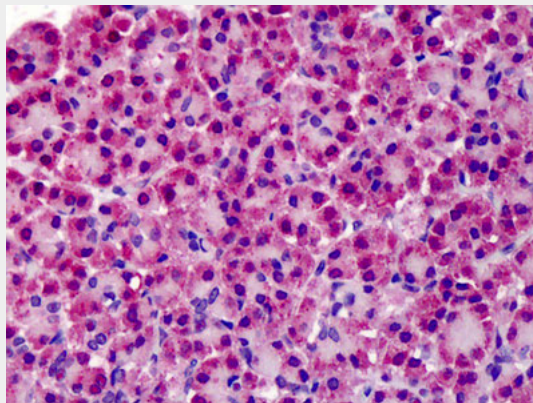
Cytoplasm. Endosome {ECO:0000250|UniProtKB:Q60803} Mitochondrion. Note=Undergoes endocytosis together with TLR4 upon LPS signaling (By similarity). Co-localized to mitochondria with TRIM35 (PubMed:32562145) {ECO:0000250|UniProtKB:Q60803, ECO:0000269|PubMed:32562145}

#### TRAF3 Antibody (N-Terminus) - Protocols

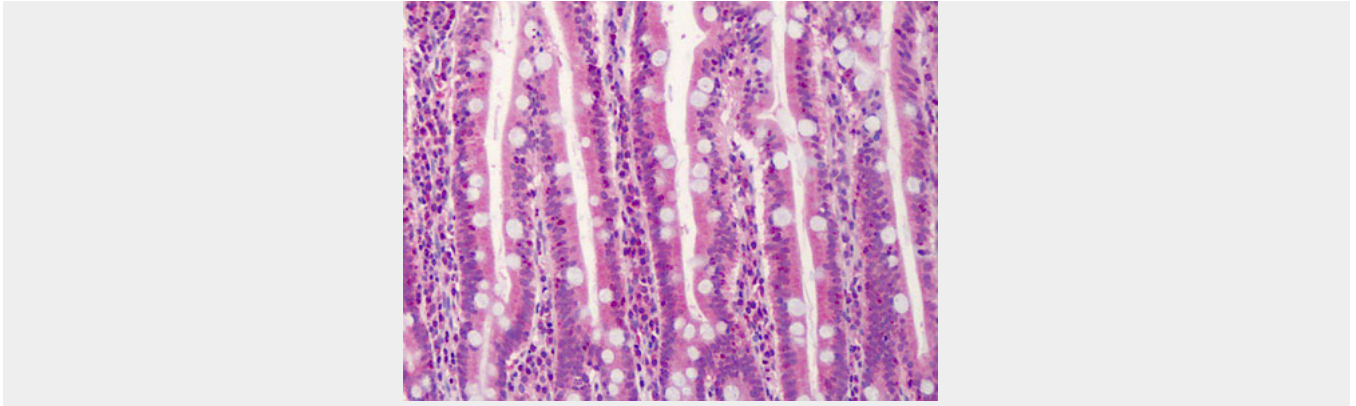
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### TRAF3 Antibody (N-Terminus) - Images



Anti-TRAF3 antibody IHC of human pancreas.



Anti-TRAF3 antibody IHC of human small intestine.

### **TRAF3 Antibody (N-Terminus) - Background**

Regulates pathways leading to the activation of NF- $\kappa$ -B and MAP kinases, and plays a central role in the regulation of B-cell survival. Part of signaling pathways leading to the production of cytokines and interferon. Required for normal antibody isotype switching from IgM to IgG. Plays a role T-cell dependent immune responses. Plays a role in the regulation of antiviral responses. Is an essential constituent of several E3 ubiquitin-protein ligase complexes. May have E3 ubiquitin-protein ligase activity and promote 'Lys-63'-linked ubiquitination of target proteins. Inhibits activation of NF- $\kappa$ -B in response to LTBR stimulation. Inhibits TRAF2-mediated activation of NF- $\kappa$ -B. Down-regulates proteolytic processing of NFKB2, and thereby inhibits non-canonical activation of NF- $\kappa$ -B. Promotes ubiquitination and proteasomal degradation of MAP3K14.

### **TRAF3 Antibody (N-Terminus) - References**

- Hu H.M., et al. J. Biol. Chem. 269:30069-30072(1994).
- Mosialos G., et al. Cell 80:389-399(1995).
- Sato T., et al. FEBS Lett. 358:113-118(1995).
- Cheng G., et al. Science 267:1494-1498(1995).
- Li W.B., et al. Submitted (FEB-2003) to the EMBL/GenBank/DDBJ databases.